

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 81-56

WASTE DISPOSAL AND WASTEWATER RECLAMATION
REQUIREMENTS FOR:

ROBERT BORELLO SEWAGE DISPOSAL PONDS
POINT REYES STATION, MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. Robert Borello (hereinafter discharger) submitted a report of waste discharge dated January 30, 1980. Letters dated July 27, 1981, August 29, 1981 and October 12, 1981 supplemented the report.
2. The discharger proposes the following at a site located five miles north of the Pt. Reyes Station (Attachments A, B and C):
 - A. Accept sewage from only the following sources for treatment, evaporation and reclamation:
 - (1) U. S. Coast Guard Pt. Reyes Station living quarters;
 - (2) Domestic residences holding and septic tanks; and
 - (3) Commercial establishments having only domestic waste.
 - B. Wastes accepted will be discharged to pond 1 and allowed to flow by gravity to ponds 2 and 3.
 - C. During dry weather undisinfected waste will be used to spray irrigate pasture land upslope of the three ponds. Runoff during dry weather and from the first winter rains will be collected in pond 4. From April 1 through the dry weather season undisinfected wastes will be sprayed within diked area 5. Dikes are approximately two feet in height. Runoff during dry weather will be contained within this area and the first winter rains will be collected and discharged following disinfection to the spray area or to ponds 1, 2, 3 or 4 without disinfection.
 - D. The waste acceptance rate will be managed such that average rainfall will not cause the average pond freeboards to be less than two feet. Waste acceptance will be terminated when management plan freeboards are not maintained. The management plan provides sufficient capacity to prevent pond overflow during peak seasonal rainfall.

3. A Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) was adopted by the Board in April 1975. The Basin Plan contains water quality objectives for Millerton Creek and Tomales Bay.
4. The beneficial uses of Millerton Creek and Tomales Bay are:
 - A. Water contact recreation including wading, swimming, water skiing and skin diving;
 - B. Non-contact water recreation including picnicking, hiking, esthetic enjoyment, pleasure boating and marinas;
 - C. Commercial and sport fishing;
 - D. Wildlife habitat;
 - E. Preservation of habitat for rare and endangered species;
 - F. Marine habitat;
 - G. Fish migration;
 - H. Fish spawning; and
 - I. Shellfish harvesting.
5. Millerton Creek is a nontidal water or dead end slough or similar confined water area or its immediate tributary.
6. The Basin Plan prohibits the discharge of:

"Any wastewater which has particular characteristics of concern to beneficial uses:

...

 - c. Into any nontidal water or dead end slough or similar confined water areas or their immediate tributaries.
 - d. To Tomales Bay ..."
7. This waste discharge is presently regulated by this Board's Order No. 73-33 adopted on June 26, 1973 and Cleanup and Abatement Order No. 79-013 issued on November 9, 1979. The discharger has not demonstrated compliance with Order Nos. 73-33 or 79-013.
8. Section 13523 of the California Water Code provides that a Regional Board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water

reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purpose specified in Finding 2C could affect the public health, safety, or welfare, and requirements for this use are, therefore, necessary in accordance with the Water Code.

9. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan, specify those limits prescribed in Title 17, Section 8025 through 8050, California Administrative Code. These objectives have been superseded by Title 22, Section 60301 - 60357, California Administrative Code.
10. These water reclamation requirements are in conformance with the state-wide Wastewater Reclamation Criteria established by the State Department of Health and are in conformance with the Policy and Action Plan for Water Reclamation adopted by the State Water Resources Control Board in January 1977.
11. These requirements govern the waste discharge to treatment and holding ponds and subsequent use of the waste for reclamation; such activity constitutes only a minor modification to land, and such activity is thereby exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.) in accordance with Section 15104, Chapter 3, Title 14, California Administrative Code.
12. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste disposal and water reclamation requirements for the proposed use and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
13. This Board at a public meeting heard and considered all comments pertaining to this disposal and reuse.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, that the discharger shall comply with the following:

A. Prohibitions

1. Acceptance of waste is prohibited unless the freeboard and capacities required in Discharge Specification B.1. of this Order are maintained.
2. Acceptance of any waste not listed in Finding 2A is prohibited.
3. Unless written authorization permitting reclamation of wastewater on a specific field or defined area is received from this Board's Executive Officer, the discharger shall not cause such a discharge of wastewater to occur.

4. No undisinfected wastewater shall be applied to any irrigation area other than diked area 5 during the period from the termination of irrigation as defined in Specification C.1. through May 15 or at other times during periods of rainfall or when soils are saturated.
5. No wastewater used for irrigation shall be allowed to escape the irrigation area, including diked area 5, either by surface flow or airborne spray.
6. There shall be no bypass, overflow or discharge of waste to waters of the State either from the ponds, diked area 5 or irrigation area.
7. The discharge of wastewater to ponds, diked area 5 or irrigation area shall not impair ground water quality.
8. Wastewater received at the facility shall not be discharged directly into pond 4, diked area 5 or used directly for irrigation.
9. Pond or diked area 5 percolation which surfaces or weakens the pond or diked area 5 structure is prohibited.
10. Wastewater irrigation ponding which could provide a breeding area for mosquitoes shall be prevented.

B. Discharge Specifications

1. A minimum freeboard of at least 2 feet shall be maintained in pond 4 and a total freeboard capacity of at least 436,000 gallons (equivalent to two feet per pond) shall be maintained in ponds 1, 2, and 3. Excessive rainfall, but not acceptance of waste, may cause less freeboard. In any event, overflow shall be prevented.

In addition, a total freeboard equivalent to, at least, the following capacities shall be maintained in ponds 1, 2 and 3 on the listed dates:

<u>Date</u>	<u>Freeboard Capacity</u> gallons
a. October 1	996,000
b. November 1	996,000
c. December 1	996,000
d. January 1	851,000
e. February 1	692,000
f. March 1	532,000
g. April 1	436,000

If higher than normal rainfall causes less freeboard, no waste shall be accepted until the required freeboard is again available.

2. Ponds and diked area 5 shall be protected against erosion, washout and flooding from a flood having a predicted frequency of once in 100 years.

C. Reclaimed Wastewater Specifications

1. Undisinfected wastewater may be reclaimed for irrigation of pasture land outside diked area 5 only during the period from May 16 to the first rain storm in excess of 0.5 inch which occurs after September 1. Pt. Reyes Fire Station or another weather monitoring source acceptable to the Executive Officer shall be the reference for determining rain storm intensity.
2. Wastewater may be discharged to diked area 5 subject to the following conditions:
 - a. Submittal of a report acceptable to and approved by the Executive Officer indicating the fate of wastewater which may percolate from this area and demonstrating that percolated wastewater will not adversely affect usable ground waters. Such report shall be prepared by a registered civil engineer or geologist and submitted by the discharger.
 - b. Discharge is limited to the period from April 1 through the first observance of ponding in this area after September 1 caused by either a discharge or rainfall. This discharge shall be immediately terminated if ponding is observed after September 1 and may not be resumed until April 1 of the following year.
 - c. A minimum freeboard of one foot shall be maintained during periods when ponding is allowable.
 - d. Any ponded liquid and, at least the first rainfall collected in this area after termination of the discharge, shall be removed from this area within 30 days of termination of discharge by:
 - (1) Removal to the spray irrigation area following disinfection such that the total coliform of the liquid shall not exceed a most probable number of 23 per 100 milliliters. This discharge shall be performed pursuant to a plan submitted by the discharger and approved by the Executive Officer. The plan shall identify: disinfection methods and timing; coliform sampling and analysis; and, supervision by a registered engineer; or
 - (2) Removal to ponds 1, 2 or 3 if sufficient freeboard is available.
3. The quality of reclaimed wastewater applied to the irrigation area or diked area 5 shall be at least equivalent to that of primary effluent as defined in Title 22, Chapter 4, Article 1, Section 60301(m) of the California Administrative Code.

4. Use of reclaimed wastewater under provisions of this Order shall be limited to irrigation of pasture land.
5. Milking cows and goats shall not be allowed into the irrigation area or area 5 at any time.
6. Reclaimed wastewater shall be applied so as to minimize accumulation of runoff water in the ditch and storage pond system.
7. Reclaimed wastewater shall be applied to irrigation area and diked area 5 in a manner which will prevent public contact with the wastewater.
8. All equipment, including pumps, piping, valves, etc., which may at any time contain waste shall be adequately and clearly identified with warning signs, and the discharger shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.
9. Areas irrigated with reclaimed wastewater shall be identified with posted notices to the public. The method and form of notification shall be subject to the review and approval of the Executive Officer.
10. If a quality or use requirement should be violated, the irrigation with reclaimed wastewater shall be, immediately, terminated and not resumed until the discharger has corrected all violations and conditions which would permit the violations to recur.

D. Provisions

1. The discharger shall comply with all prohibitions, specifications and provisions of this Order immediately upon adoption.
2. The discharger shall comply with the following time schedule for constructing improvements necessary for adequate operation:

<u>Task</u>	<u>Completion Date</u>
a. Install piping to provide gravity flow through ponds 1, 2 and 3	by November 1, 1981
b. Install baffle ahead of pond 1 outlet to prevent transfer of floating material to pond 2	by November 1, 1981
c. Install gauging facilities to allow for accurate visible determinations of the remaining capacity in ponds 1, 2 and 3	by November 1, 1981

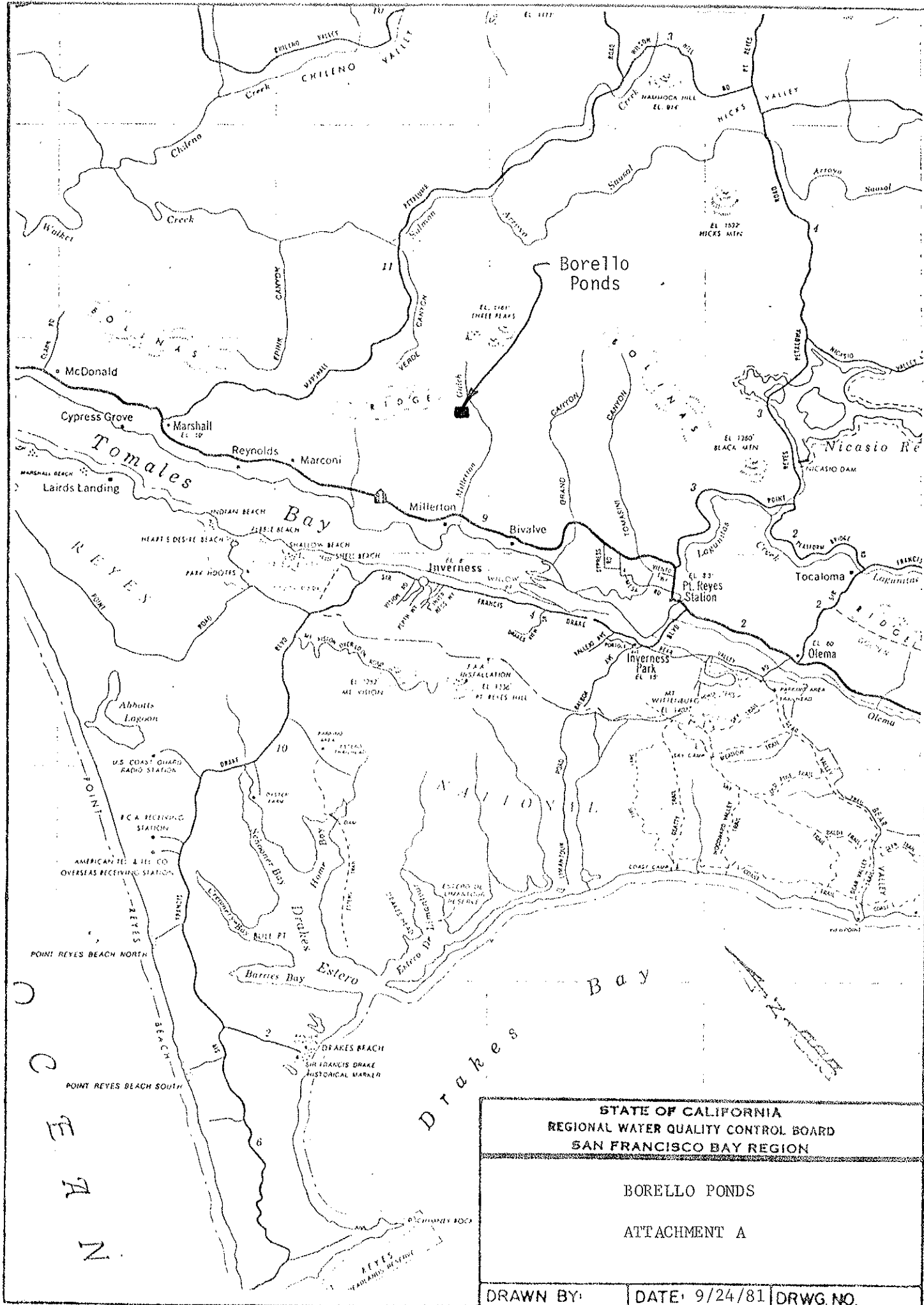
3. The discharger shall file with the Board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
4. The dischargers shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977 except Standard Provision Nos. 5, 9, 10, 12, and 16.
5. The discharger shall file with the Regional Board a report on waste discharge at least 180 days before making any material change or proposed change in the character, location or volume or reuse.
6. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
7. Discharge Specifications A.1, A.2, A.3, and A.7; and Provision C.3, and C.7; and Reporting Requirement 6 of Board Order No. 73-37 shall remain in effect until Cleanup and Abatement Order No. 79-013 is rescinded.

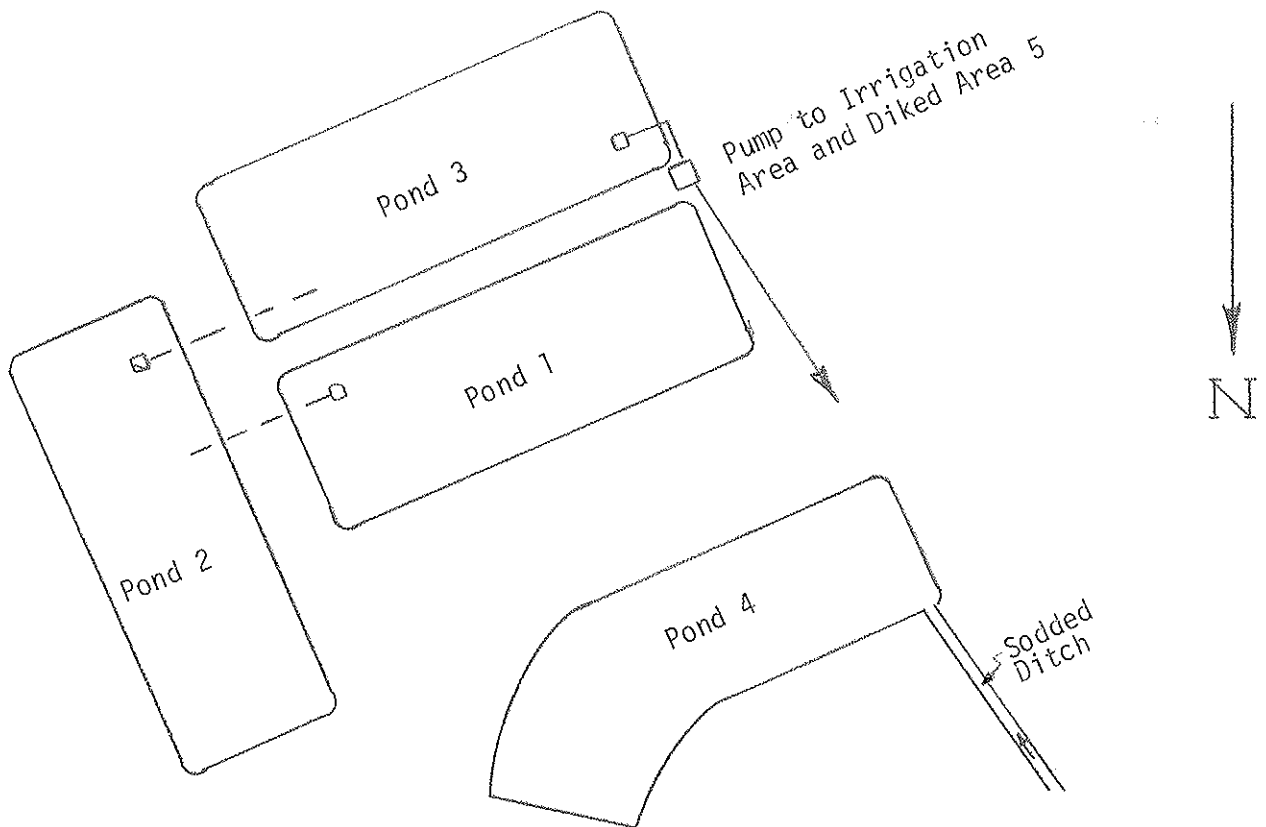
I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on October 21, 1981.

Attachments:

Borello Ponds Attachment A
Borello Ponds Attachment B
Borello Ponds Attachment C
Standard Provisions, Reporting
Requirements & Definitions - April 1977

FRED H. DIERKER
Executive Officer





The Discharger reports:

1. Ponds 1 & 3 have the following dimensions: capacity 375,500 gallons full, 196,700 gallons with 2' freeboard, 172' x 68' top, 140' x 36' bottom, & 6' depth.
2. Pond 2 has the following dimensions: capacity 315,476 gallons full, 203,900 gallons with 2' freeboard, 130' x 60' top, 98' x 28' bottom, & 8' depth.
3. Piping will be installed to provide gravity flow through Ponds 1, 2, & 3. A baffle will be installed ahead of Pond 1 outlet.

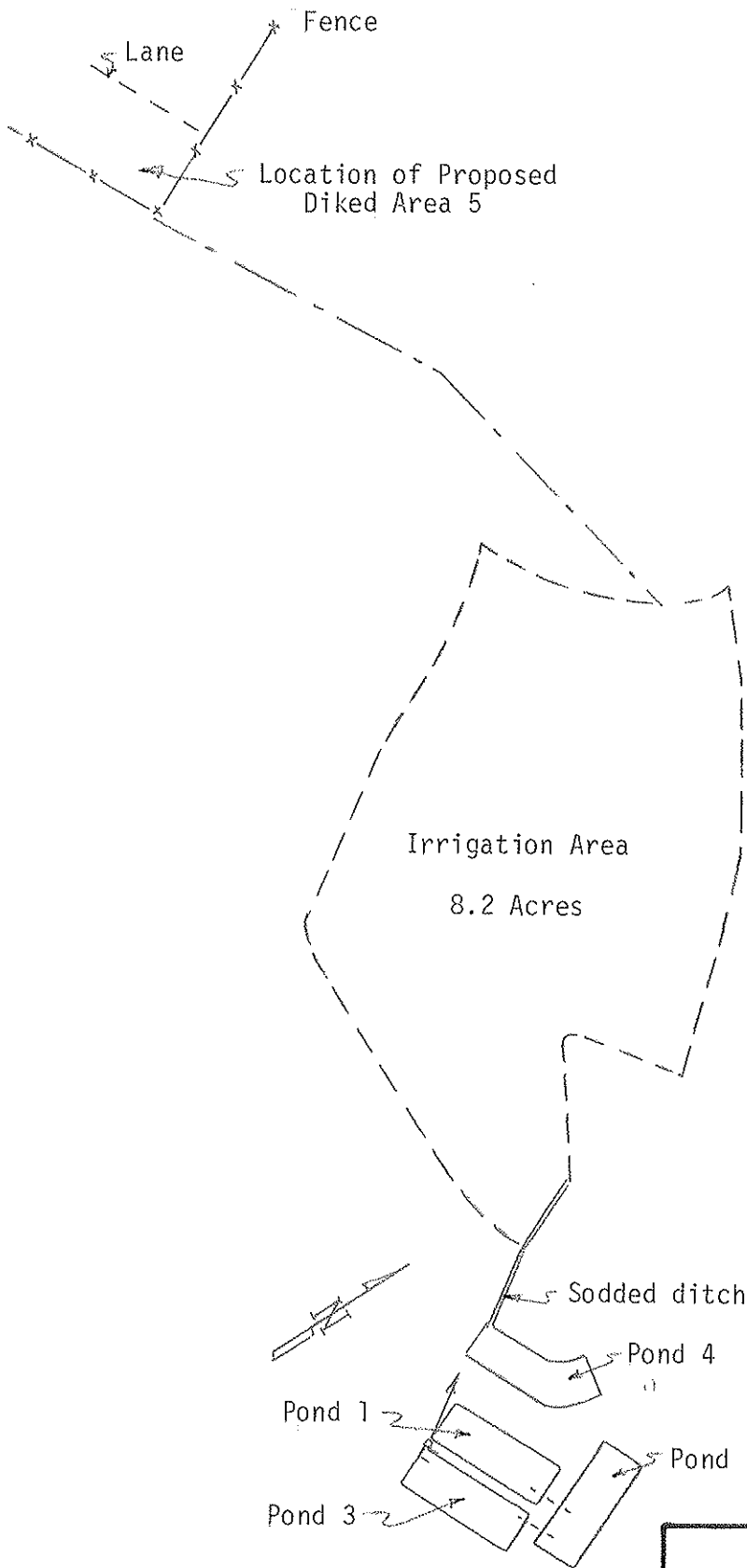
STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

Borello Ponds
Attachment B

DRAWN BY:

DATE:

DRWG. NO.



STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

Borello Ponds

Attachment C

DRAWN BY:

DATE:

DRWG. NO.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR
ROBERT BORELLO
SEWAGE DISPOSAL PONDS
POINT REYES STATION
MARIN COUNTY

MAY 1983

I. GENERAL

Pursuant to Sections 13267 and 13268 of the California Water Code, any person discharging sewage or other waste within this Region is required to furnish such technical or monitoring program reports as this Regional Board may specify; and pursuant to this Regional Board's Resolution No. 73-16 73-16 detailed specifications for subject discharger's Self-Monitoring Program are prescribed in the following sections.

Reporting Requirements for waste dischargers as specified by Resolution No. 73-16 include the following:

- "7. Regular self-monitoring program reports shall include, but not be limited to:
 - a. A letter transmitting self-monitoring reports is to accompany each report. Such a letter shall include a discussion of requirement violations found during the report period and actions taken or planned for correcting violations. Monitoring reports and the letter transmitting reports shall be signed:
 - (1) In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates.
 - (2) In the case of a partnership, by a general partner.
 - (3) In the case of a sold proprietorship, by the proprietor.
 - (4) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct."

II. Schedule of Inspection, Observations and Reporting

The discharger is required to perform inspections, observations and reporting according to the following schedule and conditions:

A. Spills

A report shall be made of any accidental spill of waste. Accidental spills shall be reported to this Regional Board by telephone immediately after it occurs. The subsequent written report shall be filed within five (5) days and shall contain information relative to:

- a. Nature of waste or pollutant,
- b. Quantity involved,
- c. Cause of spilling,
- d. Estimated size of affected area,
- e. Nature of effects (i.e., fish kill, discoloration of receiving water, etc.), and
- f. Corrective measures that have been taken, or planned, and a schedule of these activities.

B. Inspections

1. During any month that waste is present in any pond, the pond area shall be inspected at least once a week for seepage, adequate freeboard, overflow and compliance with all other waste discharge requirements.
2. The perimeter of the irrigation area shall be inspected at least once a week whenever irrigation occurs.
3. The total amount of rainfall, from any rain storm of greater than 0.25 inch intensity, occurring during the irrigation season, shall be determined from records or information recorded at the Pt. Reyes Fire Station or another weather monitoring source acceptable to the Executive Officer.

C. Reporting

1. Written reports for each month shall be filed by the fifteenth day of the following month. The reports shall include the following:
 - a. A completed and signed transmittal letter containing the information in Attachment A.
 - b. All the information for the subject month necessary to complete the monitoring report form in Attachment B.
 - c. A description of each violation, if there is any, occurring during the subject month and including the cause, time, date, duration and, if appropriate, amount and point (include map) of waste discharge.

- d. The names of haulers disposing of waste at the site and the volumes of their trucks and trailers.
2. An annual report shall be filed by February first of each year with all the information from the past calendar year recorded on one Attachment B report form.

III. Past Self Monitoring Programs

All prior self monitoring programs are rescinded.

I Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 81-56.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Effective Date _____

Attachment:
Transmittal letter from Attachment A
Monitoring Report from Attachment B

To: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

This is the Self Monitoring Report for the month of _____ 19____ for
Borello Sewage Ponds, Marin County. Included in this report are:

- (1) Completed monitoring report form, Attachment B, for subject month.
- (2) List of freeboards observed in each of the ponds during the weekly inspections and the dates of the inspections.
- (3) List of all haulers disposing of waste in the sewage ponds during the subject month.
- (4) A description of all violations occurring during the subject month including the cause, time, date, duration and, if appropriate, amount and point (with map) of waste discharge.

If the answer to the question on Attachment B, were there any WDR (waste discharge requirement) violations during the last month is "no"; item (4) may be omitted.

I certify under penalty of perjury, that all the information in this transmittal letter and the attachments described in items (1), (2), (3), and (4) are, to the best of my knowledge, true and correct.

Signature of Owner

Date

Month	No of Loads Received in Past Month	Est Gal. of Waste Received in Past Mo.
1. Oct.		
2. Nov.		
3. Dec.		
4. Jan.		
5. Feb.		
6. Mar.		
7. Apr.		
1. May.		
2. Jun.		
3. Jul.		
4. Aug.		
5. Sept.		
6. Oct.		
7. Nov.		

Observed Freeboard on the 1st Day of the Month			Freeboard Capacity On First Day	
Pond 1 Feet	Pond 2 Feet	Pond 3 Feet	Pond 1 Gallons	Pond 2 Gallons

IRRIGATION

Circle Irrigation Date:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	24 25 26 27 28 29 30 31
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	24 25 26 27 28 29 30
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	24 25 26 27 28 29 30 31
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	24 25 26 27 28 29 30 31
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	24 25 26 27 28 29 30
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	24 25 26 27 28 29 30
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	24 25 26 27 28 29 30 31
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	24 25 26 27 28 29 30

Date & Amount of each rainfall during Irr